

## Assessing the vulnerability of eco-environmental health to climate change

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#### Abstract:

There is an urgent need to assess the vulnerability of eco-environmental health to climate change. This paper aims to provide an overview of current research, to identify knowledge gaps, and to propose future research needs in this challenging area. Evidence shows that climate change is affecting and will, in the future, have more (mostly adverse) impacts on ecosystems. Ecosystem degradation, particularly the decline of the life support systems, will undoubtedly affect human health and wellbeing. Therefore, it is important to develop a framework to assess the vulnerability of eco-environmental health to climate change, and to identify appropriate adaptation strategies to minimize the impact of climate change.

Source: http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2872276

## Resource Description

#### Exposure: M

weather or climate related pathway by which climate change affects health

Air Pollution, Ecosystem Changes, Extreme Weather Event, Food/Water Quality, Food/Water Security, Human Conflict/Displacement, Precipitation, Sea Level Rise, Temperature

Air Pollution: Allergens, Particulate Matter

Extreme Weather Event: Drought, Flooding, Hurricanes/Cyclones, Wildfires

Food/Water Quality: Biotoxin/Algal Bloom, Chemical, Pathogen

Food/Water Security: Agricultural Productivity, Food Access/Distribution, Nutritional Quality

**Temperature:** Extreme Heat, Fluctuations

Geographic Feature: M

resource focuses on specific type of geography

Freshwater

Geographic Location: M

resource focuses on specific location

Global or Unspecified

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#### Health Impact: M

specification of health effect or disease related to climate change exposure

Cardiovascular Effect, Infectious Disease, Injury, Mental Health/Stress, Morbidity/Mortality, Respiratory Effect, Other Health Impact

**Infectious Disease:** Foodborne/Waterborne Disease, General Infectious Disease, Vectorborne Disease

**Foodborne/Waterborne Disease:** General Foodborne/Waterborne Disease, Leptospirosis, Schistosomiasis, Other Diarrheal Disease

Vectorborne Disease: Fly-borne Disease, Mosquito-borne Disease, Tick-borne Disease

Mosquito-borne Disease: Chikungunya, Dengue, Malaria, Ross River Virus, Viral Encephalitis

Respiratory Effect: Asthma

Other Health Impact: Well-being; Heat stroke; Heat exhaustion; Heay syncope; Heat cramps

mitigation or adaptation strategy is a focus of resource

Adaptation

Population of Concern: A focus of content

Population of Concern: M

populations at particular risk or vulnerability to climate change impacts

Children, Elderly, Low Socioeconomic Status, Workers

Other Vulnerable Population: People without access to air conditioning

Resource Type: **№** 

format or standard characteristic of resource

Review

Resilience: M

capacity of an individual, community, or institution to dynamically and effectively respond or adapt to shifting climate impact circumstances while continuing to function

A focus of content

Timescale: M

time period studied

Time Scale Unspecified

resource focus on process of identifying, quantifying, and prioritizing vulnerabilities in a system

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A focus of content